MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2018/2019

DAC5038 – COMPUTER APPLICATIONS FOR ENGINEERING

(Diploma in Electronics Engineering)

8 MARCH 2019
15:00 p.m. – 17:00 p.m.
(2 Hours)

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INSTRUCTIONS TO STUDENT:

1. This question paper consists of **TWO** pages excluding the cover page with **FIVE** Questions only.

2. Attempt all **FIVE** questions in this paper. All questions carry equal marks and the distribution of the marks for each question is given.

3. Please write all your answers in the Answer Booklet provided.

Question 1

a) Based on the **FOUR** major functions of a computer, describe the components and its purpose that would be required to setup a complete computer.

(8 marks)

b) Software is a set of instructions that tells the computer what to do. Explain the function of system software in the computer.

(3 marks)

c) Most current computer system use GUI (Graphical User Interface) as the method for users to interact with the computer. Describe the advantages of GUIs over command-driven or menu-driven interfaces.

(3 marks)

d) Explain the **TWO** common methods used to measure and evaluate the computers CPU performance.

(6 marks)

[TOTAL 20 MARKS]

Question 2

a) Briefly explain about Internet Protocol (IP) address.

(3 marks)

b) Write short notes about email as the primary means of communication over the internet.

(8 marks)

c) What is the difference between Social commerce and Mobile commerce ?

(5 marks)

d) Describe the difference between Specialty search engines and Metasearch engines.

(4 marks)

[TOTAL 20 MARKS]

Continued ...

Question 3

a) Explain about the benefits of networking computers.

(8 marks)

b) List down the **THREE** methods networks are classified.

(3 marks)

c) Briefly discuss about the following:
   i.   Digital convergence   (4 marks)
   ii.   Internet of Things (IoT)   (2 marks)
   iii.   Digital Living Network Alliance (DLNA)   (3 marks)

[TOTAL 20 MARKS]

Question 4

a) List down the **FOUR** common cybercrime complaints.

(4 marks)

b) A hacker is defined as anyone who unlawfully breaks into a computer system. Explain about the **THREE** different types of hackers.

(9 marks)

c) Briefly discuss about the following:
   i.   Stealth viruses   (3 marks)
   ii.   Phishing   (2 marks)
   iii.   Virtual Private Networks (VPNs)   (2 marks)

[TOTAL 20 MARKS]

Question 5

a) Describe the **FOUR** basic steps used to create data tables in a database.

(9 marks)

b) Discuss about Management Information Systems (MIS).

(11 marks)

[TOTAL 20 MARKS]

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